

Amendments to the Claims:

Please cancel claims 1-3, 6-11, 13-16 and 20-25 without prejudice or disclaimer.

Please add new claims 26-32.

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claims 1-25 (Canceled)

26. (New) A water-tolerant, regenerable adsorbent for use in an acid gas dry scrubbing process, the adsorbent comprising mesoporous silica or organosilica, wherein amine-containing molecules are dispersed within a hydrophobic layer on a surface of the mesoporous silica or organosilica, and wherein the adsorbent has a carbon dioxide adsorption capacity of at least 11.70 cc/g at standard temperature and pressure.
27. (New) The adsorbent according to claim 26, wherein the acid gas is carbon dioxide.
28. (New) A method of dry scrubbing comprising the step of contacting a gaseous stream containing an acid gas to be removed with water-tolerant, regenerable adsorbent comprising mesoporous silica or organosilica, wherein amine-containing molecules are dispersed within a hydrophobic layer on the surface of the mesoporous silica or organosilica,
29. (New) A system for removal of an acid gas from a gaseous stream, comprising:
 - (a) two or more sorbent beds comprising a water-tolerant, regenerable adsorbent comprising mesoporous silica or organosilica, wherein amine-containing molecules are dispersed within a hydrophobic layer on a surface of the mesoporous silica or

organosilica, and wherein the adsorbent has a carbon dioxide adsorption capacity of at least 11.70 cc/g at standard temperature and pressure;

(b) valve means for controlling gas flow through the sorbent beds, and;

(c) pump means for controlling gas pressure in the system.

30. (New) The system of claim 29, wherein the acid gas is carbon dioxide.
31. (New) The system of claim 29, wherein the adsorbent is pelletized with a binder that is an inert secondary material.
32. (New) The system of claim 29, wherein the adsorbent is pelletized with a binder that is an active secondary material.